191

SERVICE MANUAL

INTEGRATED DC SERVO STEREO AMPLIFIER

SANSUI A-910

(Silver & Black Model)

CLASSIQUE A-901

Note + 269
A-910 and A-901 are additional models which external appearances are different from those of A-909.
This manual contains OTHER PARTS LIST, PACKING LIST and ACCESSORY LIST in which changed parts are printed with bold-face.
For other parts list, refer to A-909 service manual previously issued.

Sansui

SANSUI ELECTRIC CO., LTD.

•SPECIFICATIONS

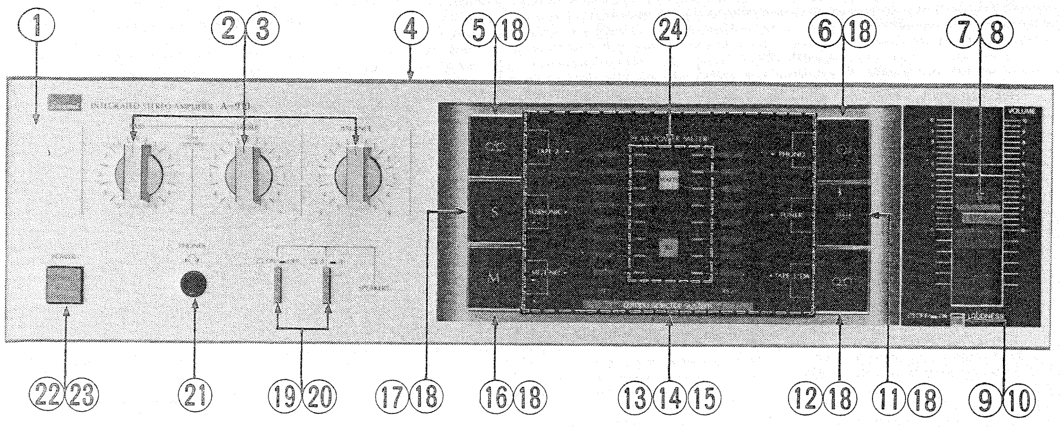
Power output
Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.05% total harmonic distortion
70 watts per channel into 8 ohms
Load impedance............. 8 ohms
Total harmonic distortion
.... less than 0.05% at or below rated min. RMS power output
Frequency response (at 1 watt)
.... 5 to 60,000 Hz
+1 dB, −2 dB
RIAA curve deviation (PHONO, 20 Hz to 20 kHz)
.... +0.5 dB, −0.5 dB
Input sensitivity and impedance (1 kHz, for rated power output)
PHONO..................... 2.5 mV/47 kilohms
(Max. input capability; 120mV at 1 kHz, less than 0.1% total harmonic distortion)
TUNER, TAPE PLAY.... 150 mV/47 kilohms
Output level (1 kHz)
TAPE REC................... 130 mV into 47 kilohms
Signal to noise ratio (short-circuit, A-network)
PHONO..................... 72 dB
TUNER, TAPE PLAY.... 90 dB
Power requirements
Power voltage............ 120/220/240V (50/60 Hz)
For U.S.A. & Canada
.... 120V (60 Hz)
Power consumption.... 230 watts 280 VA Rated
350 wats Maximum
Dimensions..................... 430 mm (16-15/16″) W
118 mm (4-11/16″) H
245 mm (9-11/16″) D
Weight............................ 5.6 kg (12.4 lbs.) net
6.4 kg (14.1 lbs.) packed

* Design and specifications subject to changes without notice for improvements.

+269
191

1. OTHER PARTS

•Front View



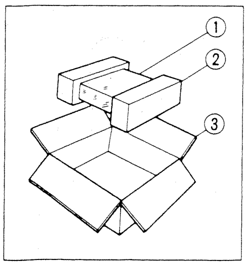
Parts List

Parts No.	Stock No.	Description
•Common Parts		
2	46363100	50kΩ(C) × 2 & 250kΩ V.R., BASS/TREBLE/BALANCE
4	07952400	Bonnet
5	47433500	Knob, TAPE-2
	46365400	Push SW., TAPE-2
6	47433800	Knob, PHONO
	46396900	Push SW., PHONO
8	46395300	150kΩ Slide V.R., VOLUME
10	46360900	Push SW., LOUDNESS
11	47433900	Knob, TUNER
	46395900	Push SW., TUNER
12	47434000	Knob, TAPE-1
	46395900	Push SW., TAPE-1
13	47401810	Display Cover
16	47433700	Knob, MUTING
	46365400	Push SW., MUTING
17	47433600	Knob, SUBSONIC
18	47071410	Cushion Rubber
19	46361100	Push SW., SPEAKERS
21	46265700	Jack, PHONES
22	46364300	Push SW., POWER
24	46862300	LED LEVEL METER, LT-1117

Parts No.	Stock No.	Description
•Black Model		
1	47479000	Front Panel (A-910)
	47509000	Front Panel (A-901)
3	47397300	Knob, BASS/TREBLE/BALANCE
7	47484000	Slide Knob, VOLUME
9	07917300	Push Knob, LOUDNESS
14	47369300	Display Panel
15	07947900	Display Holder
20	07911000	Push Knob, SPEAKERS
23	07911210	Push Knob, POWER
•Silver Model		
1	47478900	Front Panel
3	47397200	Knob, BASS/TREBLE/BALANCE
7	47484000	Slide Knob, VOLUME
9	47234600	Push Knob, LOUDNESS
14	47369800	Display Panel
15	07947900	Display Holder
20	47252100	Push Knob, SPEAKERS
23	07971220	Push Knob, POWER

2. PACKING LIST

Parts No.	Stock No.	Description
1	91263810	Vinyl Cover
2	07949000	Styrofoam Packing
3	47478700	Carton Case <Silver Model>
	47478800	Carton Case <Black Model>
	47507600	Carton Case (A-901)



3. ACCESSORY LIST

Stock No.	Description
46895600	Operating Instruction (A-910)
46895700	Operating Instruction (A-901)

Sansui

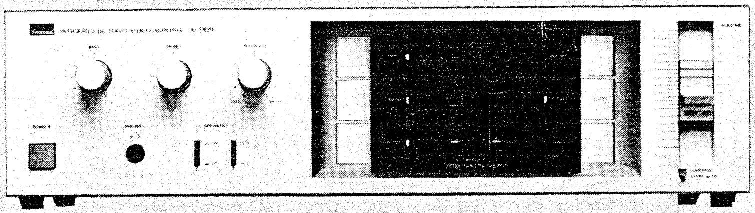
SANSUI ELECTRIC CO., LTD.: 14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan
PHONE: (03) 324-8891/TELEX: 232-2076 (International Division)
SANSUI ELECTRONICS CORPORATION: 1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
17150 South Margay Ave. Carson, California 90746 U.S.A.
3306 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI ELECTRONICS (U.K.) LTD.: Unit 10A, Lyon Industrial Estate, Rockware Avenue, Geenford, Middx UB6, OAA, England
SANSUI ELECTRONICS G.M.B.H.: Pau Ehrich Strasse 8, 6074 Rödermark 2, West Germany

(SM1-148) Printed in Japan (D30620M) <Stock No. 36493000>

SERVICE MANUAL

INTEGRATED DC SERVO STEREO AMPLIFIER

SANSUI A-909



Sansui

SANSUI ELECTRIC CO., LTD.

A-909

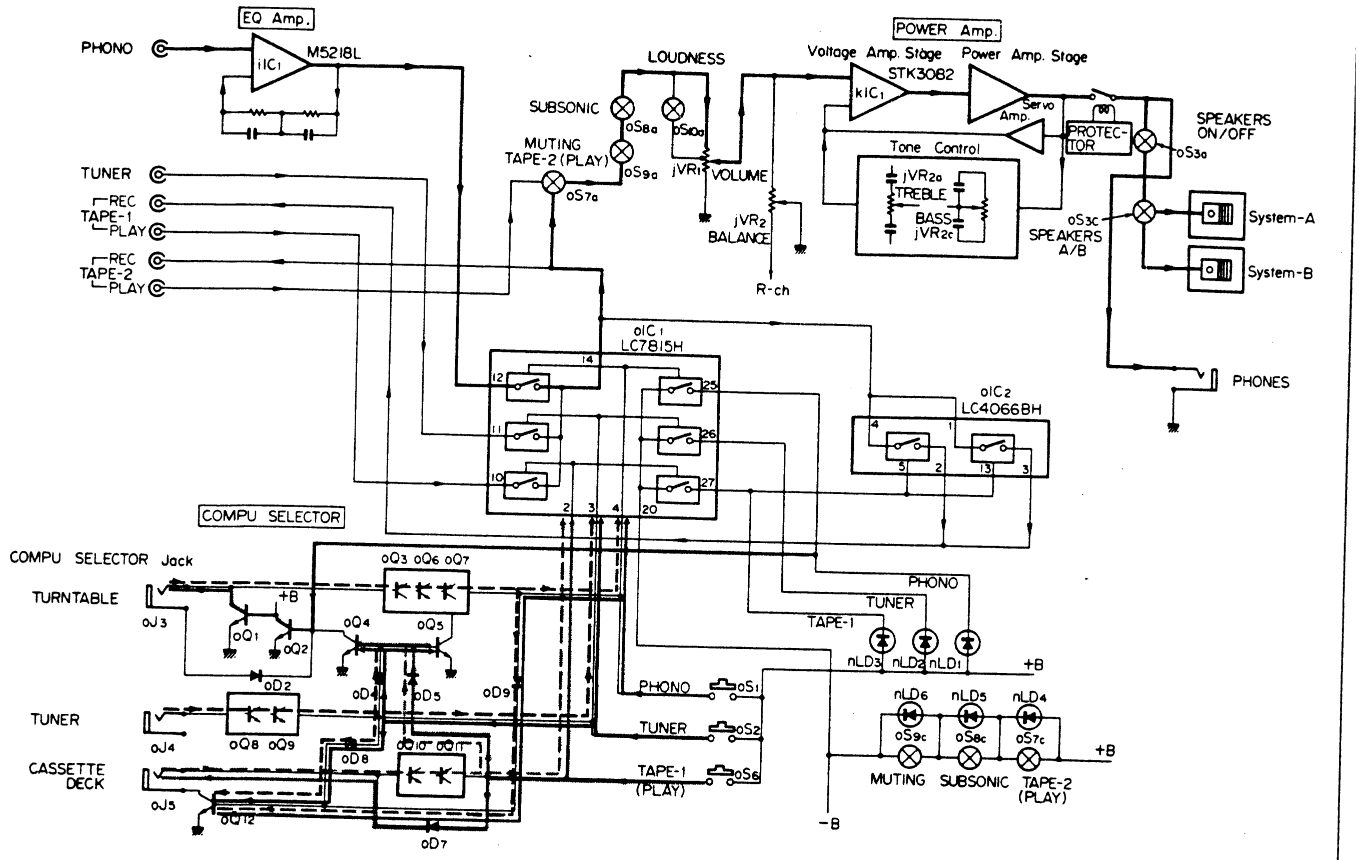
• SPECIFICATIONS

Power output	
Min. RMS, both channels driven from 20 to 20,000 Hz, with no more than 0.05 % total harmonic distortion	
70 watts per channel into 8 ohms	
Load impedance	8 ohms
Total harmonic distortion	less than 0.05 % at or below rated min. RMS power output
Frequency response (at 1 watt)	5 to 60,000 Hz +1 dB, −2 dB
RIAA curve deviation (PHONO, 20 Hz to 20 kHz)	+0.5 dB, −0.5 dB
Input sensitivity and impedance (1 kHz, for rated power output)	
PHONO	2.5 mV/47 kilohms
(Max. input capability; 120 mV at 1 kHz, less than 0.1 % total harmonic distortion)	
TUNER, TAPE PLAY	150 mV/47 kilohms
Output level (1 kHz)	
TAPE REC	130 mV into 47 kilohms
Signal to noise ratio (short-circuit, A-network)	
PHONO	72 dB
TUNER, TAPE PLAY	90 dB
Power requirements	
Power voltage	120/220/240 V (50/60 Hz)
For U.S.A. & Canada	120 V (60 Hz)
Power consumption	230 watts 280 VA Rated 350 watts Maximum
Dimensions	430 mm (16-15/16") W 118 mm (4-11/16") H 245 mm (9-11/16") D
Weight	5.6 kg (12.4 lbs.) net 6.4 kg (14.1 lbs.) packed

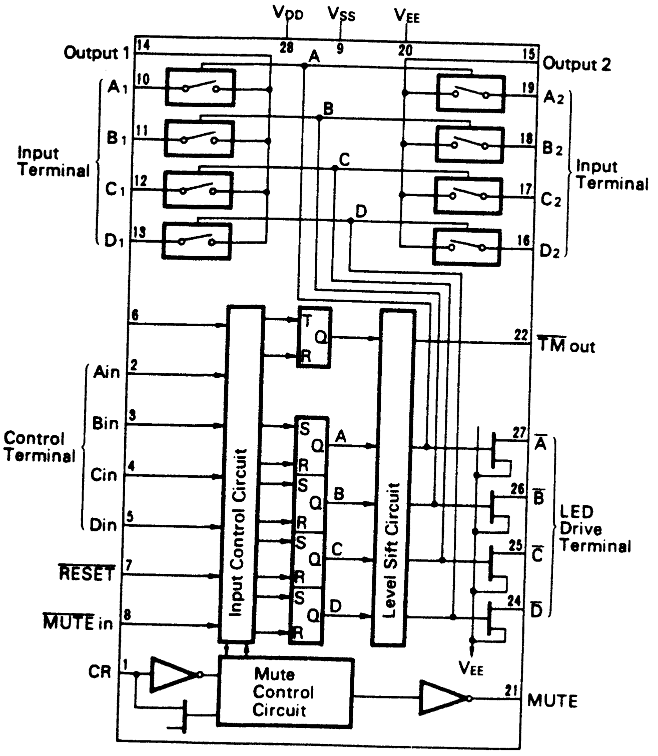
* Design and specifications subject to change without notice for improvements.

269

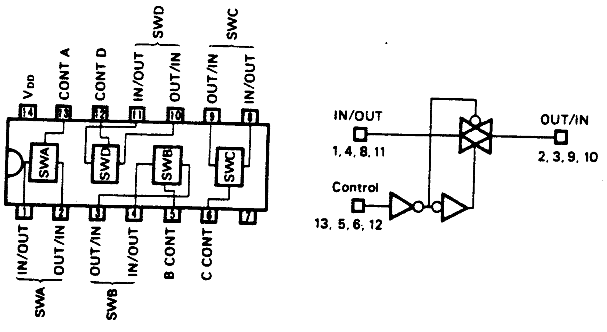
1. BLOCK DIAGRAM


EQ Amp.
PHONO
iIC1
M5218L
TUNER
TAPE-1 REC
TAPE-1 PLAY
TAPE-2 REC
TAPE-2 PLAY
LOUDNESS
SUBSONIC
oS8a
oS10a
MUTING
TAPE-2 (PLAY)
oS9a
oS7a
jVR1
VOLUME
jVR2
BALANCE
R-ch
POWER Amp.
Voltage Amp. Stage
Power Amp. Stage
kIC1
STK3082
Servo Amp.
PROTECTOR
Tone Control
jVR2a
TREBLE
BASS
jVR2c
SPEAKERS ON/OFF
oS3a
oS3c
SPEAKERS A/B
System-A
System-B
PHONES
oIC1
LC7815H
oIC2
LC4066BH
COMPU SELECTOR
COMPU SELECTOR Jack
TURNTABLE
oJ3
+B
oQ1
oQ2
oQ3 oQ6 oQ7
oQ4
oQ5
oD2
oD4
oD5
oD9
TUNER
oJ4
oQ8 oQ9
CASSETTE DECK
oJ5
oQ12
oD8
oQ10 oQ11
oD7
PHONO
TUNER
TAPE-1
nLD3 nLD2 nLD1
+B
PHONO oS1
TUNER oS2
TAPE-1 (PLAY) oS6
nLD6 nLD5 nLD4
oS9c oS8c oS7c
MUTING
SUBSONIC
TAPE-2 (PLAY)
+B
-B

• LC7815H Analog Function Switch IC


VDD
VSS
VEE
28
9
20
Output 1
14
A1 10
B1 11
C1 12
D1 13
Input Terminal
15 Output 2
19 A2
18 B2
17 C2
16 D2
Input Terminal
A
B
C
D
6
T
Q
R
22 TM out
Control Terminal
Ain 2
Bin 3
Cin 4
Din 5
RESET 7
MUTE in 8
Input Control Circuit
S Q R
A
B
C
D
Level Sift Circuit
27 A
26 B
25 C
24 D
LED Drive Terminal
VEE
CR 1
Mute Control Circuit
21 MUTE

• LC4066BH Quard Bilateral Switch IC


VDD
CONT A
CONT D
IN/OUT
OUT/IN
SWD
OUT/IN
IN/OUT
SWC
14 13 12 11 10 9 8
SWA
SWD
SWB
SWC
1 2 3 4 5 6 7
IN/OUT
OUT/IN
SWA
OUT/IN
IN/OUT
SWB
B CONT
C CONT
IN/OUT
1, 4, 8, 11
OUT/IN
2, 3, 9, 10
Control
13, 5, 6, 12

* LC7815H

Condition of control input terminals Port (Pin No.)				Connected input terminal to output 1 and 2 terminals		Connected terminal to LED indicator
Ain (2)	Bin (3)	Cin (4)	Din (5)	PORT (Pin No.)	PORT (Pin No.)	PORT (Pin No.)
H	*	*	*	A1(10)	A2(19)	A(27)
L	H	*	*	B1(11)	B2(18)	B(26)
L	L	H	*	C1(12)	C2(17)	C(25)
L	L	L	H	D1(13)	D2(16)	D(24)

H : H level L : L level * : Don't care

2. OPERATION OF COMPU SELECTOR (See Block Diagram)

* The amplifier (A-909) has COMPU SELECTOR function which works with a tuner (T-707 or T-909), a turntable (P-D30, P-L40 or P-L50), a tape deck (D-77F, D-77R or D-99D).

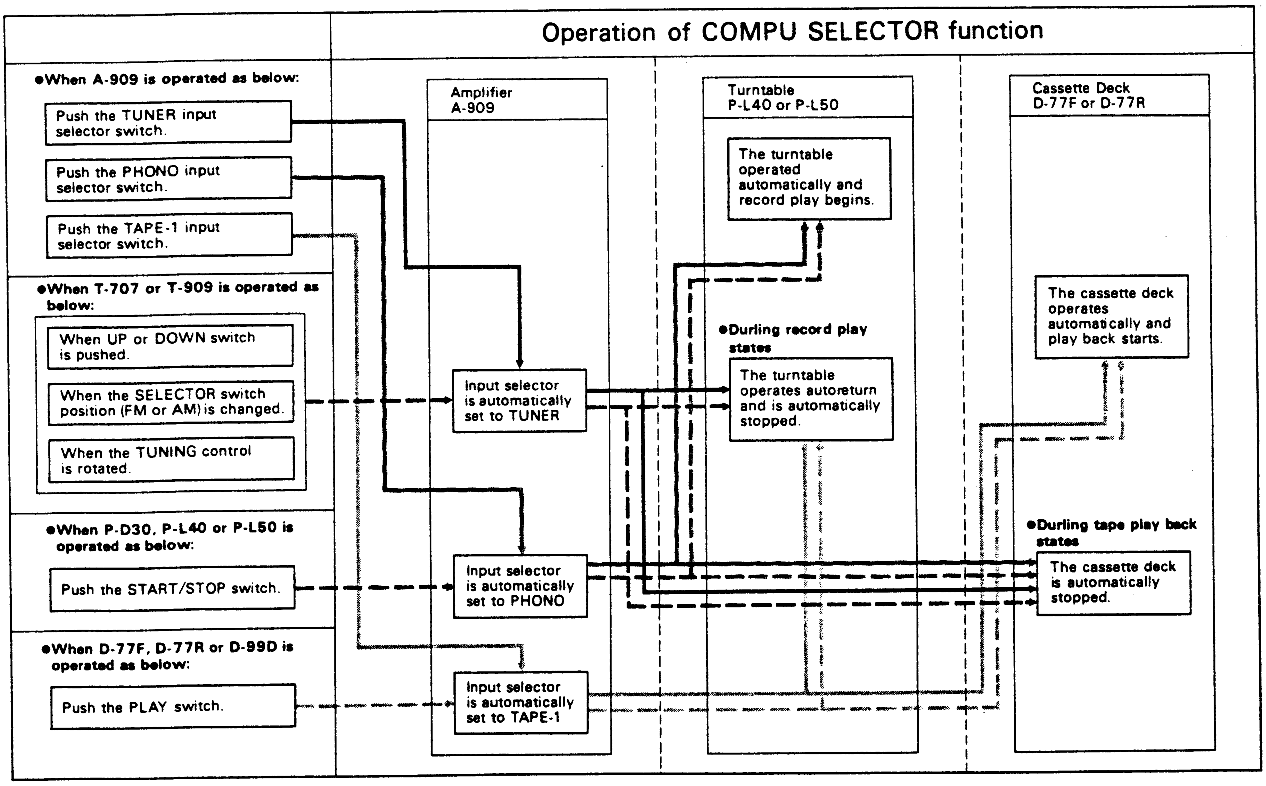
A. Operation when one of the input selector switches of the amplifier is pushed

1)
   - When the PHONO switch is pushed, the platter of the turntable (P-L40 or P-L50) starts rotating and the tonearm automatically moves to play record.
   - When the TUNER or TAPE-1 switch is pushed during record play, the tonearm returns to the arm rest and the platter stops rotating automatically.

2)
   - When the TAPE-1 switch is pushed, the cassette deck (D-77F or D-77R) starts automatically to playback a tape.
   - When the PHONO or TUNER switch is pushed during tape playback, cassette deck stops automatically.

B. Operation when one of the function switches of combined unit is controlled

1) When the START/STOP switch of the turntable (P-D30, P-L40 or P-L50) is pushed, the input selector of the amplifier is automatically set to the PHONO mode.
2) When one of the FM/AM selection switch and the UP/DOWN switch of the tuner (T-707 or T-909) is pushed, or the tuning knob of the tuner is touched by hand, the input selector of the amplifier is automatically set to TUNER mode.
3) When the PLAY switch of the cassette deck is pushed, the input selector of the amplifier is automatically set to the TAPE-1 mode.


Operation of COMPU SELECTOR function
●When A-909 is operated as below:
Push the TUNER input selector switch.
Push the PHONO input selector switch.
Push the TAPE-1 input selector switch.
●When T-707 or T-909 is operated as below:
When UP or DOWN switch is pushed.
When the SELECTOR switch position (FM or AM) is changed.
When the TUNING control is rotated.
●When P-D30, P-L40 or P-L50 is operated as below:
Push the START/STOP switch.
●When D-77F, D-77R or D-99D is operated as below:
Push the PLAY switch.
Amplifier A-909
Input selector is automatically set to TUNER
Input selector is automatically set to PHONO
Input selector is automatically set to TAPE-1
Turntable P-L40 or P-L50
The turntable operated automatically and record play begins.
●Durling record play states
The turntable operates autoreturn and is automatically stopped.
Cassette Deck D-77F or D-77R
The cassette deck operates automatically and play back starts.
●Durling tape play back states
The cassette deck is automatically stopped.

3. BIAS CURRENT ADJUSTMENT (See Top View on Page 5)

Note:
1. Room Temperature . . . . 18°C ~ 28°C
2. For adjustment, run the unit for more than 3 minutes after the power is switched on.
3. Before turning ON POWER switch, turn kVR1 on F-3728 fully counterclockwise.

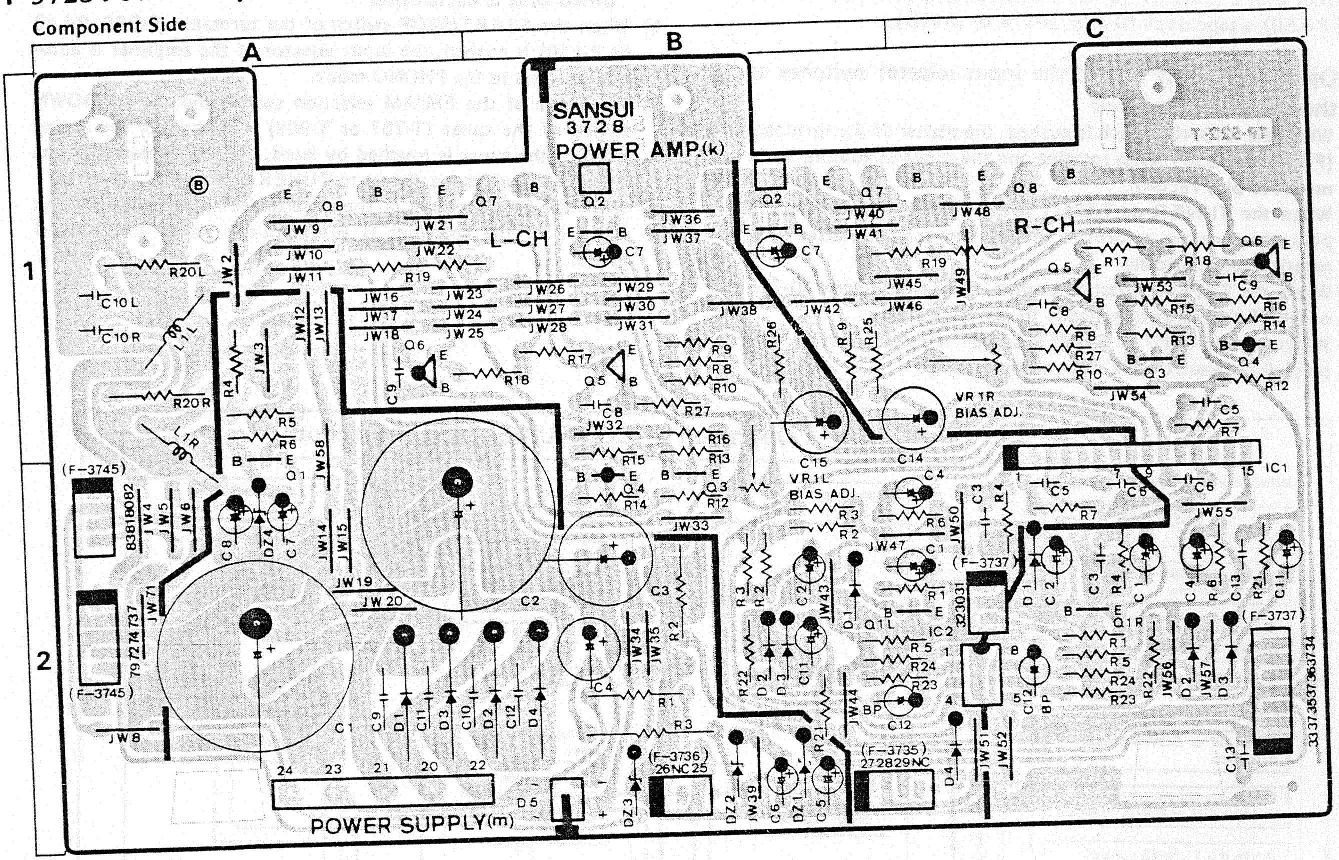
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	L-CH	Connect DC volt meter between emitters of kQ7, kQ8 on F-3728	kVR1 (L-CH) F-3728	DC 3mV	This bias current adjustment converts current value into voltage by ohms law.
2.	R-CH	Same as above	kVR1 (R-CH) F-3728	DC 3mV	

●Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

. PARTS LOCATION & PARTS LIST

-1. F-3728 Power Amp. & Power Supply Circuit Board (Stock No. 00711901)

Component Side


A
B
C
1
2
SANSUI
3728
POWER AMP.(k)
L-CH
R-CH
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
C7
C9
C10L
C10R
L1L
L1R
R20L
R20R
R19
R18
R17
R16
R15
R14
R13
R12
R10
R9
R8
R7
R6
R5
R4
R27
R26
R25
C8
C5
C6
C14
C15
VR1R
BIAS ADJ.
VR1L
BIAS ADJ.
IC1
IC2
(F-3745)
83818082
79727474737
(F-3736)
26NC25
(F-3735)
272829NC
(F-3737)
33373537363734
C1
C2
C3
C4
C11
C12
C13
D1
D2
D3
D4
D5
DZ1
DZ2
DZ3
DZ4
R1
R2
R3
R21
R22
R23
R24
BP
24
23
21
20
22
POWER SUPPLY(m)

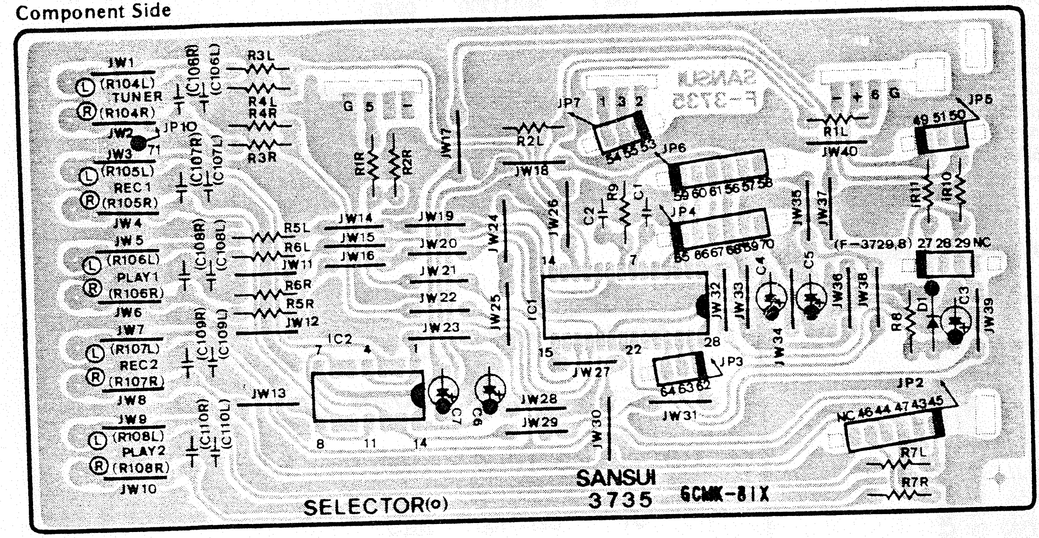
Parts List

Parts No.	Stock No.	Description
●Transistor		
kQ1	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
kQ2	03067401	2SC1845
kQ3	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
kQ4	46367201	2SA1048
	or 46367001	2SA1115
	or 46392001	2SA1175
kQ5	07206401	2SD600K
kQ6	07206301	2SB631K
kQ7	46085301	2SC2581
kQ8	46085401	2SA1106
●IC		
kIC1	46394900	STK3082-2
kIC2	03607700	NJM4558D
●Diode		
kD1	03117600	1S2473
	or 46086000	1S1588
kD2	03117600	1S2473
	or 46086000	1S1588
kD3	03117600	1S2473
	or 46086000	1S1588
kR11	46229400	220Ω 1/2W N.I.R.
kR17	46229200	150Ω 1/2W N.I.R.
kR18	46229200	150Ω 1/2W N.I.R.
kR19	00091700	0.33Ω x 2 Ce.R.
kR20	46248100	10Ω 1W N.I.R.
kR25	46229000	100Ω 1/2W N.I.R.
kR26	46229000	100Ω 1/2W N.I.R.

Parts No.	Stock No.	Description
kC12	08450900	4.7μF 16V E.B.
kL1	46394500, 1	Inductor Coil
kVR1	10370400	1kΩ (B) S.V.R., bias
●Transistor		
mQ1	03067401	2SC1845
●Diode		
mD1	03115300	30D2
mD2	03115300	30D2
mD3	03115300	30D2
mD4	03115300	30D2
mD5	46273600	DBB10-B
●Zener Diode		
mDZ1	03170300	RD12F
mDZ2	03170300	RD12F
mDZ3	03169300	RD7.5F
mDZ4	46105800	05Z24
mR1	46248700	33Ω 1W N.I.R.
mR2	46249600	180Ω 1W N.I.R.
mR3	00186200	120Ω 2W N.I.R.
mR4	46229600	330Ω 1/2W N.I.R.
mR5	46229600	330Ω 1/2W N.I.R.
mR7	46228100	18Ω 1/2W N.I.R.
mC1	08301800	6800μF 63V E.C.
mC2	08301800	6800μF 63V E.C.
mC9	08680400	10000pF 500V C.C.
mC10	08680400	10000pF 500V C.C.
mC11	08680400	10000pF 500V C.C.
mC12	08680400	10000pF 500V C.C.

4-2. F-3735 COMPU Selector Control IC Circuit Board (Stock No. 00712401)

Component Side

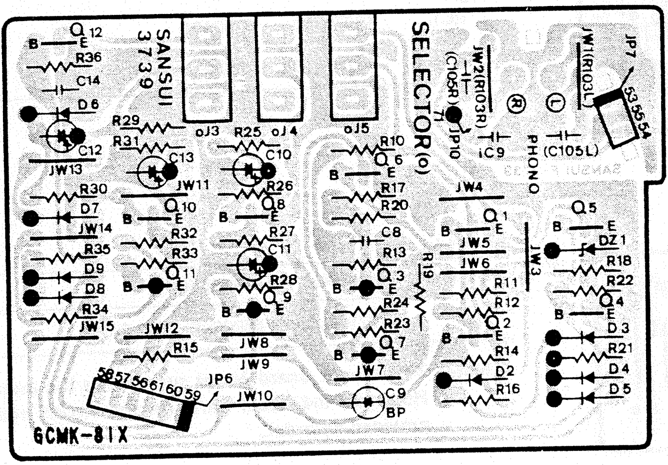

JW1
Ⓛ (R104L)
TUNER
Ⓡ (R104R)
JW2
JP10
JW3
Ⓛ (R105L)
REC1
Ⓡ (R105R)
JW4
JW5
Ⓛ (R106L)
PLAY1
Ⓡ (R106R)
JW6
JW7
Ⓛ (R107L)
REC2
Ⓡ (R107R)
JW8
JW9
Ⓛ (R108L)
PLAY2
Ⓡ (R108R)
JW10
(C106R)
(C106L)
(C107R)
(C107L)
(C108R)
(C108L)
(C109R)
(C109L)
(C110R)
(C110L)
R3L
R4L
R4R
R3R
R5L
R6L
R6R
R5R
JW11
JW12
JW13
IC2
JW14
JW15
JW16
JW17
JW18
JW19
JW20
JW21
JW22
JW23
JW24
JW25
JW26
JW27
JW28
JW29
JW30
JW31
JW32
JW33
JW34
JW35
JW36
JW37
JW38
JW39
JW40
R1R
R2R
R2L
R1L
R9
R8
C1
C2
C3
C4
C5
C6
C7
D1
IC1
JP2
JP3
JP4
JP5
JP6
JP7
IR10
IR11
(F-3729,8)
R7L
R7R
SANSUI
3735
6CMK-81X
SELECTOR(o)
SANSUI F-3735

Parts List

Parts No.	Stock No.	Description
iR10	46229000	100Ω 1/2W N.I.R.
iR11	46229000	100Ω 1/2W N.I.R.
•IC		
oIC1	46394800	LC7815H
oIC2	46255000	LC4066BH
•Diode		
oD1	03117600	1S2473D
	46371500	4P Input Terminal, TUNER/TAPE-1 (REC)
	46363900	6P Input Terminal, TAPE-1 (PLAY)/TAPE-2

4-3. F-3739 COMPU Selector Circuit Board (Stock No. 00712801)

Component Side


Q12
R36
C14
D6
R29
R31
C12
JW13
C13
R30
D7
JW11
Q10
JW14
R32
R35
R33
D9
D8
Q11
R34
JW15
JW12
R15
SANSUI
3739
oJ3
R25
oJ4
oJ5
C10
R26
Q8
R27
C11
R28
Q9
JW8
JW9
JW10
JP6
R10
Q6
R17
R20
C8
R13
Q3
R19
R24
R23
Q7
JW7
C9
BP
SELECTOR(o)
JW2(R103R)
(C105R)
JP10
IC9
JW4
Q1
JW5
JW6
JW3
R11
R12
Q2
R14
D2
R16
PHONO
JW1(R103L)
(C105L)
JP7
Q5
DZ1
R18
R22
Q4
D3
R21
D4
D5
6CMK-81X

Parts List

Parts No.	Stock No.	Description
•Transistor		
oQ1	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ2	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ3	46367201	2SA1048
	or 46367001	2SA1115
	or 46392001	2SA1175
oQ4	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ5	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ6	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ7	46367201	2SA1048
	or 46367001	2SA1115
	or 46392001	2SA1175
oQ8	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ9	46367201	2SA1048
	or 46367001	2SA1115
	or 46392001	2SA1175
oQ10	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
oQ11	46367201	2SA1048
	or 46367001	2SA1115
	or 46392001	2SA1175
oQ12	46367301	2SC2458
	or 46367101	2SC2603
	or 46391901	2SC2785
•Diode		
oD2	03117600	1S2473
	or 46086000	1S1588
oD3	03117600	1S2473
	or 46086000	1S1588
oD4	03117600	1S2473
	or 46086000	1S1588

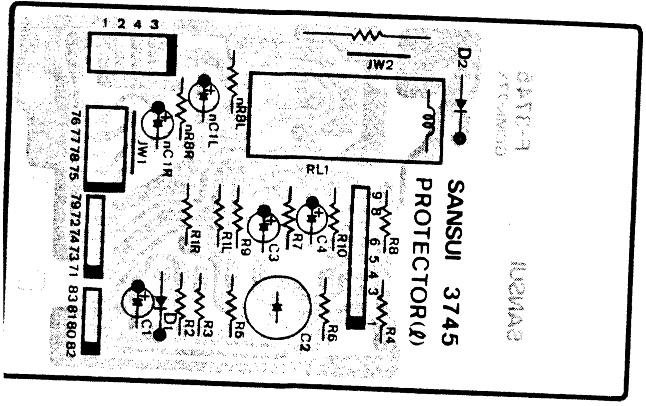
Parts List <F-3739>

Parts No.	Stock No.	Description
oD5	03117600	1S2473
	or 46086000	1S1588
oD6	03117600	1S2473
	or 46086000	1S1588
oD7	03117600	1S2473
	or 46086000	1S1588
oD8	03117600	1S2473
	or 46086000	1S1588
oD9	03117600	1S2473
	or 46086000	1S1588

Parts No.	Stock No.	Description
•Zener Diode		
oDZ1	46111200	05Z5.1
oC9	08450800	3.3μF 16V E.B.
oJ3	46148200	Jack, COMPU SELECTOR (PHONO)
oJ4	46148200	Jack, COMPU SELECTOR (TUNER)
oJ5	46148200	Jack, COMPU SELECTOR (TAPE-1)
	46363700	2P Input Terminal, PHONO

4-4. F-3745 Protector Circuit Board (Stock No. 00712901)

Component Side

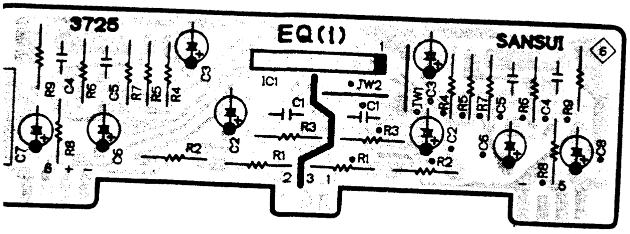

1 2 4 3
JW2
D2
RL1
JW1
R8L
R8R
C1L
C1R
R1R
R1L
R9
C3
R7
C4
R10
C1
D1
R2
R3
R5
C2
R6
R4
9 8 6 5 4 3
76 77 78 75 79 72 74 73 71 83 81 80 82
SANSUI 3745
PROTECTOR(ℓ)

Parts List

Parts No.	Stock No.	Description
•IC		
lIC1	46207600	TA7317P
•Diode		
lD1	03117600	1S2473
	or 46086000	1S1588
lD1	03117700	10E-2
lC2	08460200	220μF 6.3V E.B.
lRL1	46254900	Relay

-5. F-3725 EQ. Amp. Circuit Board (Stock No. 00695501)

omponent Side

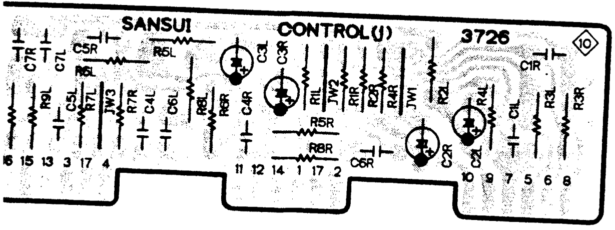

3725
EQ(I)
SANSUI
6
IC1
JW2
R9
C4
R6
C5
R7
R5
R4
C3
C1
R3
C7
R8
C6
R2
C2
R1
JW1
2 3 1
5

Parts List

Parts No.	Stock No.	Description
•IC		
iIC1	46078900	M5218L
iC1	46137200	220pF 50V C.C.

6. F-3726 Tone Control Circuit Board

omponent Side


SANSUI
CONTROL(J)
3726
10
C7R
C7L
C5R
R6L
R5L
R9L
C5L
R7L
JW3
R7R
C4L
C6L
R8L
R6R
C4R
C3R
C3L
R1L
JW2
R1R
R2R
R4R
JW1
R2L
R5R
R8R
C6R
C2R
C2L
R4L
C1L
C1R
R3L
R3R
16 15 13 3 17 4
11 12 14 1 17 2
10 9 7 5 6 8

Parts List

Parts No.	Stock No.	Description
jC7	07216800	68000pF 25V C.C.

Note: This circuit board is not supplied as the assembled. However, individual parts on the circuit board are provided by order.

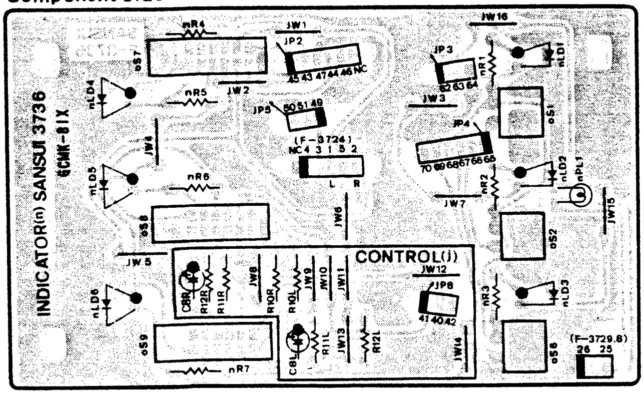
•Abbreviations

C.R. : Carbon Resistor
S.R. : Solid Resistor
Ce.R. : Cement Resistor
M.R. : Metal Film Resistor
F.R. : Fusing Resistor
N.I.R. : Non-Inflammable Resistor
C.C. : Ceramic Capacitor
C.T. : Ceramic Capacitor, Temperature Compensation
E.C. : Electrolytic Capacitor
E.L. : Low Leak Electrolytic Capacitor
E.B. : Bi-Polar Electrolytic Capacitor
E.BL. : Low Leak Bi-Polar Electrolytic Capacitor
Ta.C. : Tantalum Capacitor
F.C. : Film Capacitor
M.P. : Metalized Paper Capacitor
P.C. : Polystyrene Capacitor
G.C. : Gimmic Capacitor
V.R. : Variable Resistor
S.V.R. : Semi Variable Resistor
SW. : Switch

- Note: The circuit board, F-3736, F-3737, F-3738, F-3727, F-3731 & F-3732 are not supplied as the assembled. However, the individual parts on the circuit board are provided by orders.

4-7. F-3736 Input Selector Switch & Indicator Circuit Board

Component Side

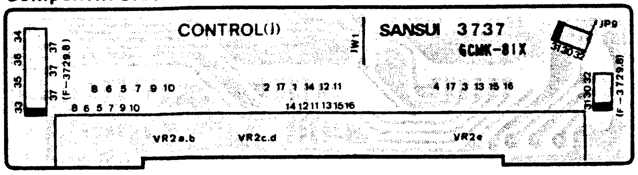

INDICATOR(n) SANSUI 3736
6CMK-81X
CONTROL(J)
nR4
JW1
JW16
JP2
JP3
nR1
nLD1
oS7
nLD4
nR5
JW2
JP5
JW3
oS1
JW4
(F-3724)
JP4
nR6
nLD5
nR2
nLD2
nPL1
JW7
JW6
JW15
oS8
oS2
JW5
JW12
JP8
nR3
nLD3
nLD6
JW8
JW9
JW10
JW11
oS9
nR7
JW13
JW14
oS6
(F-3729.8)

Parts List

Parts No.	Stock No.	Description
nLD1	46176900	LED TLS-123
nLD2	46176900	LED TLS-123
nLD3	46176900	LED TLS-123
nLD4	46176900	LED TLS-123
nLD5	46176900	LED TLS-123
nLD6	46176900	LED TLS-123
nPL1	46315900	Pilot Lamp 12V 1.5A
oS1	46395900	Push SW., PHONO
oS2	46395900	Push SW., TUNER
oS6	46395900	Push SW., TAPE-1
oS7	46365400	Push SW., TAPE-2
oS8	46365400	Push SW., SUBSONIC
oS9	46365400	Push SW., MUTING

4-8. F-3737 BASS/TREBLE/BALANCE Volume Circuit Board

Component Side

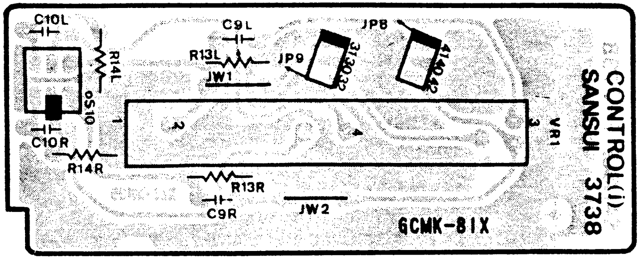

CONTROL(J)
SANSUI 3737
6CMK-81X
JW1
JP9
(F-3729.8)
VR2a.b
VR2c.d
VR2e

Parts List

Parts No.	Stock No.	Description
jVR2	46363100	50kΩ (C) x 2 & 250kΩ V.R., BASS/TREBLE/BALANCE

4-9. F-3738 VOLUME Circuit Board

Component Side

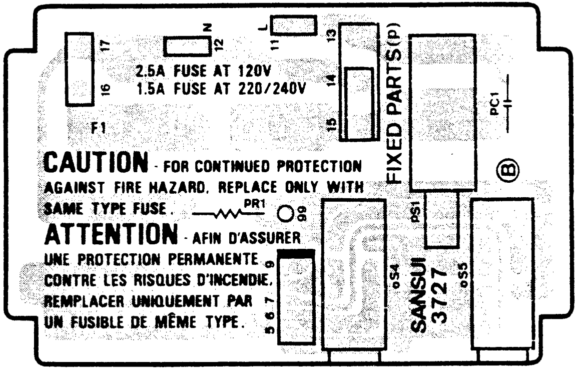

C10L
C9L
JP8
R13L
JP9
JW1
R14L
oS10
C10R
R14R
R13R
C9R
JW2
VR1
CONTROL(J)
SANSUI 3738
6CMK-81X

Parts List

Parts No.	Stock No.	Description
jC9	46137600	470pF 50V C.C.
jC10	07216200	22000pF 25V C.C.
jVR1	46395300	150kΩ Slide V.R., VOLUME
oS10	46360900	Push SW., LOUDNESS

4-10. F-3727 POWER Switch Circuit Board

Component Side


2.5A FUSE AT 120V
1.5A FUSE AT 220/240V
F1
FIXED PARTS(p)
PC1
CAUTION - FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSE.
PR1
ATTENTION - AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MÊME TYPE.
PS1
oS4
SANSUI 3727
oS5

Parts List

Parts No.	Stock No.	Description
pF1	07189100 07188700	Fuse 5.0A 250V (120V) Fuse 2.5A 250V (220V/240V)
pC1	46425800	10000pF 400V C.C.
pS1	46364300	Push SW., POWER

4-11. F-3731 Speaker Selector Circuit Board

Parts List

Parts No.	Stock No.	Description
oS3	46361100	Push SW., SP selector
oJ1	46265700	Jack, PHONES

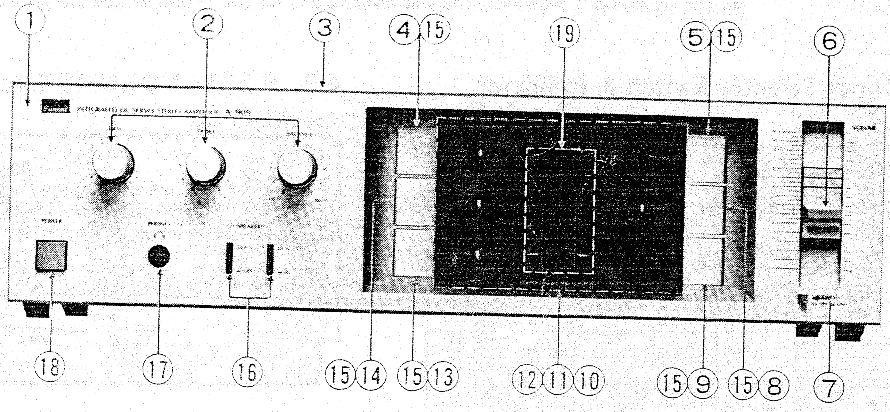
4-12. F-3732 Speaker Terminal Circuit Board

Parts List

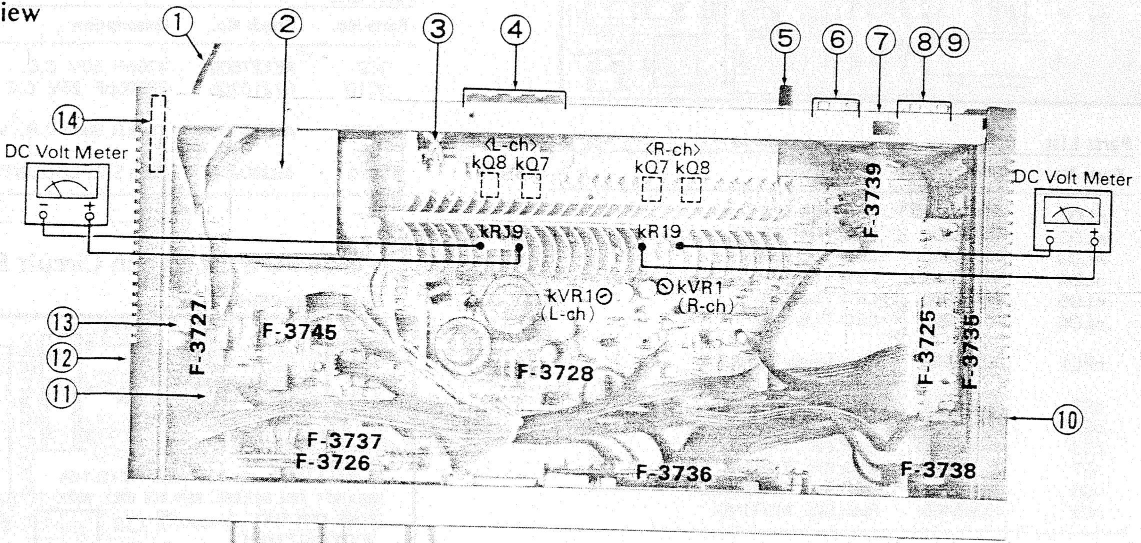
Parts No.	Stock No.	Description
	46364100	8P Push Terminal, speaker

5. OTHER PARTS

5-1. Front View



5-2. Top View



Parts List <Front View>

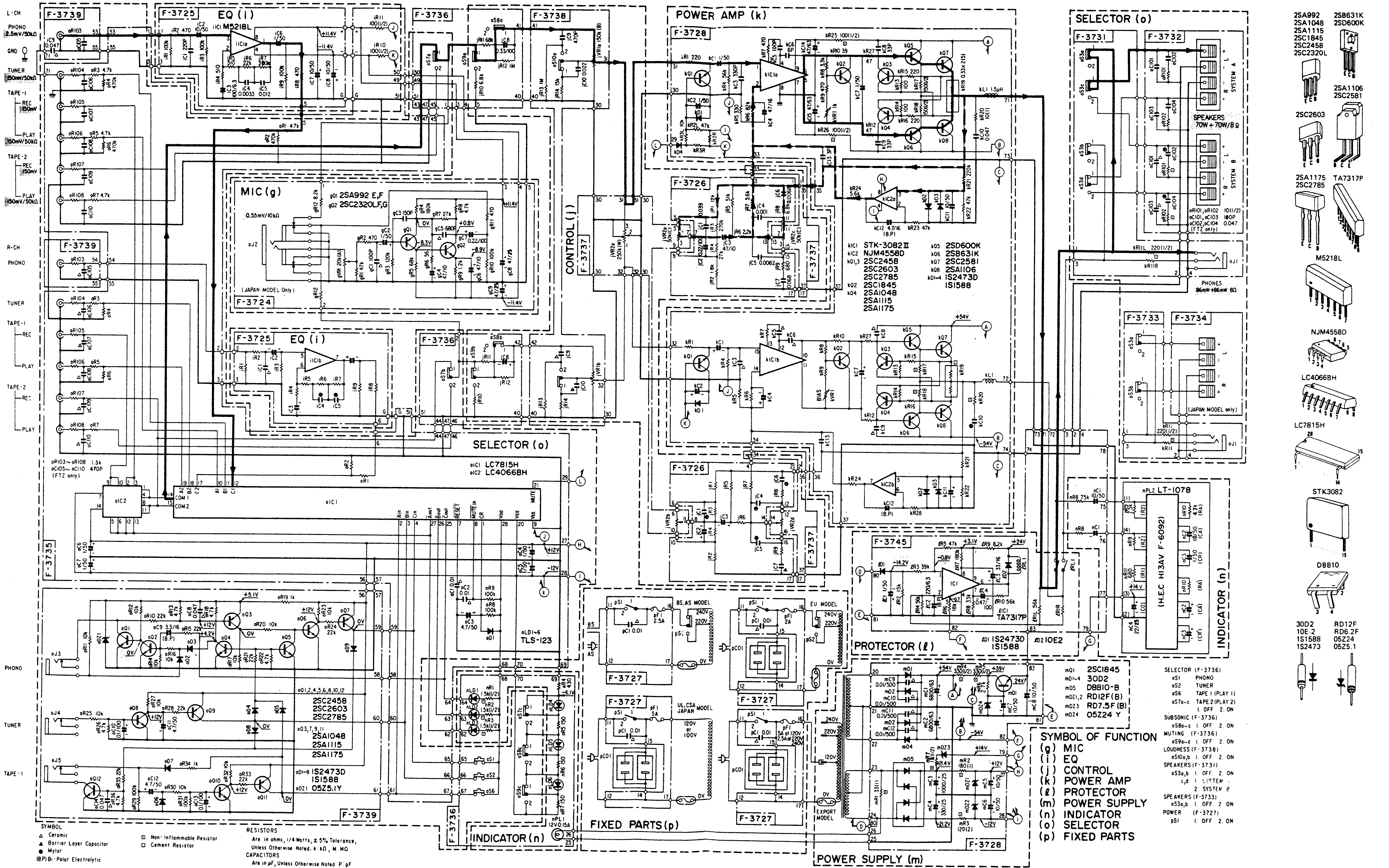
Parts No.	Stock No.	Description
●Common Parts		
2	46363100	50kΩ (C) x 2 & 250kΩ V.R., BASS/TREBLE/BALANCE
3	07952400	Bonnet
4	07925800	Knob, TAPE-2
	46365400	Push SW., TAPE-2
5	07925500	Knob, PHONO
	46396900	Push SW., PHONO
6	46395300	150kΩ Slide V.R., VOLUME
7	46360900	Push SW., LOUDNESS
8	07925600	Knob, TUNER
	46395900	Push SW., TUNER
9	07925700	Knob, TAPE-1
	46395900	Push SW., TAPE-1
10	07945100	Display Cover
13	07925100	Knob, MUTING
	46365400	Push SW., MUTING
14	07925200	Knob, SUBSONIC
15	47071300	Cushion Rubber
16	46361100	Push SW., SPEAKERS
17	46265700	Jack, PHONES
18	46364300	Push SW., POWER
19	46393400	LED LEVEL METER, LT1078
●Silver Model		
1	07933200	Front Panel
2	07932400	Knob, BASS/TREBLE/BALANCE
6	07932600	Slide Knob, VOLUME
7	07917200	Push Knob, LOUDNESS
11	47009500	Display Panel
12	47011500	Display Holder
16	47005500	Push Knob, SPEAKERS
18	07971210	Push Knob, POWER
●Black Model		
1	07962000	Front Panel
2	47033300	Knob, BASS/TREBLE/BALANCE
6	07932700	Slide Knob, VOLUME
7	07917300	Push Knob, LOUDNESS
11	07954400	Display Panel
12	07947900	Display Holder
16	07911000	Push Knob, SPEAKERS
18	07911210	Push Knob, POWER

Parts List <Top View>

Parts No.	Stock No.	Description
1	38004700	Power Supply Cord
2	15009101	Power Transformer
3	46365000	AC Outlet
4	46364100	8P Push Terminal, SPEAKERS
5	22301500	Ground Terminal
6	46363700	2P Input Terminal, PHONO
7	46148200	Jack (Mini), COMPU SELECTOR
8	46371500	4P Input Terminal, TUNER/TAPE-1 (REC)
9	46363900	6P Input Terminal, TUNER/TAPE-1 TAPE-2
10	07952700	Side Panel (R)
11	07947200	Joint Shaft (D), POWER SW.
12	07952600	Side Panel (L)
13	07189100	AC Fuse 5A 250V (120V)
	07188700	AC Fuse 2.5A 250V (220V/240V)
14	07917700	AC Cord Cover

6. SCHEMATIC DIAGRAM

* Design and specifications subject to change without notice for improvement.
* La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.


A
B
C
D
E
F
G
H
1
2
3
4
5
L-CH
PHONO 2.5mV/50kΩ
GND
TUNER 150mV/50kΩ
TAPE-1 REC 150mV PLAY 150mV/50kΩ
TAPE-2 REC 150mV PLAY 150mV/50kΩ
R-CH
F-3739
F-3725
EQ (i)
iIC1 M5218L
F-3736
F-3738
POWER AMP (k)
F-3728
F-3726
F-3737
CONTROL (j)
MIC (g)
qQ1 2SA992 E,F
qQ2 2SC2320LF,G
0.55mV/10kΩ
(JAPAN MODEL Only)
F-3724
SELECTOR (o)
F-3731
F-3732
SPEAKERS 70W+70W/8Ω
SYSTEM A
SYSTEM B
F-3733
F-3734
PHONES 86mW+86mW 8Ω
(JAPAN MODEL only)
kIC1 STK-3082Ⅱ
kIC2 NJM4558D
kQ1,3 2SC2458
2SC2603
2SC2785
kQ2 2SC1845
kQ4 2SA1048
2SA1115
2SA1175
kQ5 2SD600K
kQ6 2SB631K
kQ7 2SC2581
kQ8 2SA1106
kD1~4 1S2473D
1S1588
oIC1 LC7815H
oIC2 LC4066BH
F-3735
F-3745
PROTECTOR (ℓ)
ℓIC1 TA7317P
ℓD1 1S2473D
1S1588
ℓD2 10E2
nPL2 LT-1078
(H.E.C H13AV F-6092)
INDICATOR (n)
nLD1~6 TLS-123
oQ1,2,4,5,6,8,10,12
2SC2458
2SC2603
2SC2785
oQ3,7,9,11
2SA1048
2SA1115
2SA1175
oD1~9 1S2473D
1S1588
oDZ1 05Z5.1Y
F-3727
FIXED PARTS (p)
BS,AS MODEL
EU MODEL
UL,CSA JAPAN MODEL
EXPORT MODEL
POWER SUPPLY (m)
mQ1 2SC1845
mD1~4 30D2
mD5 DBB10-B
mDZ1,2 RD12F(B)
mDZ3 RD7.5F(B)
mDZ4 05Z24 Y
2SA992
2SA1048
2SA1115
2SC1845
2SC2458
2SC2320L
2SB631K
2SD600K
2SA1106
2SC2581
2SC2603
2SA1175
2SC2785
TA7317P
M5218L
NJM4558D
LC4066BH
LC7815H
STK3082
DBB10
30D2
10E-2
1S1588
1S2473
RD12F
RD6.2F
05Z24
05Z5.1

SYMBOL OF FUNCTION
(g) MIC
(i) EQ
(j) CONTROL
(k) POWER AMP
(ℓ) PROTECTOR
(m) POWER SUPPLY
(n) INDICATOR
(o) SELECTOR
(p) FIXED PARTS

SELECTOR (F-3736)
oS1 PHONO
oS2 TUNER
oS6 TAPE 1 (PLAY 1)
oS7a~c TAPE 2 (PLAY 2)
1. OFF 2. ON
SUBSONIC (F-3736)
oS8a~c 1. OFF 2. ON
MUTING (F-3736)
oS9a~c 1. OFF 2. ON
LOUDNESS (F-3738)
oS10a,b 1. OFF 2. ON
SPEAKERS (F-3731)
oS3a,b 1. OFF 2. ON
c,d 1. SYSTEM A
2. SYSTEM B
SPEAKERS (F-3733)
oS3a,b 1. OFF 2. ON
POWER (F-3727)
pS1 1. OFF 2. ON

oR103~oR108 1.5k
oC105~oC110 470P
(FTZ only)

SYMBOL
△ Ceramic
▲ Barrier Layer Capacitor
● Mylar
(B.P) Bi-Polar Electrolytic

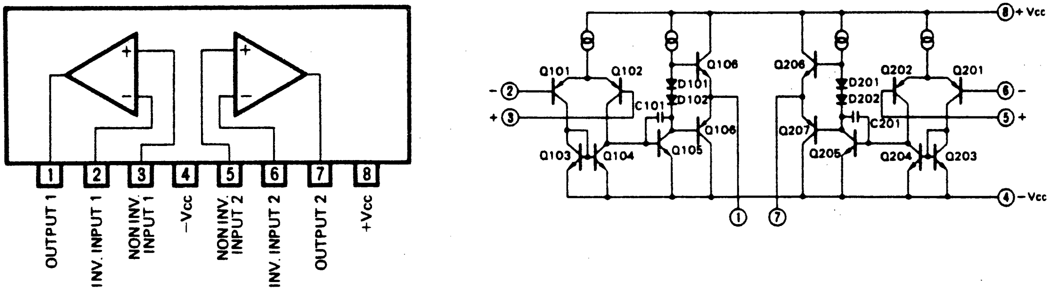
⊡ Non-Inflammable Resistor
□ Cement Resistor

RESISTORS
Are in ohms, 1/4 Watts, ± 5% Tolerance, Unless Otherwise Noted. k: kΩ, M: MΩ
CAPACITORS
Are in μF, Unless Otherwise Noted P: pF
Each D.C Voltage shows the nominal value in volts at no input signal.
Electrolytic Capacitor : Capacitance (μF) / Volt (V)

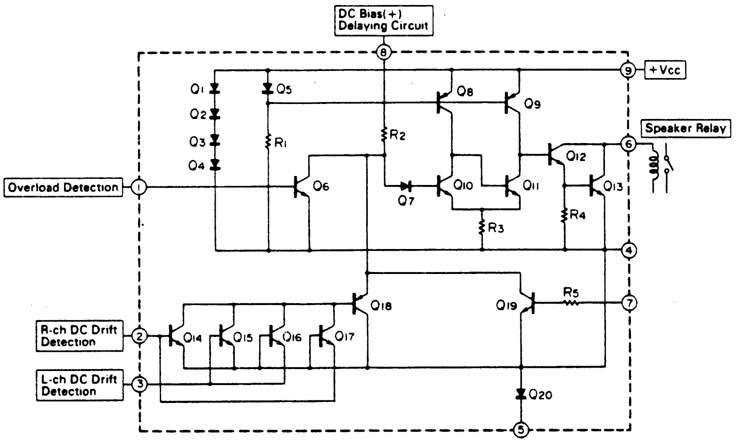
——— Signal Line
– – – – N.F.B Line

7. INTERIOR BLOCK DIAGRAM OF IC

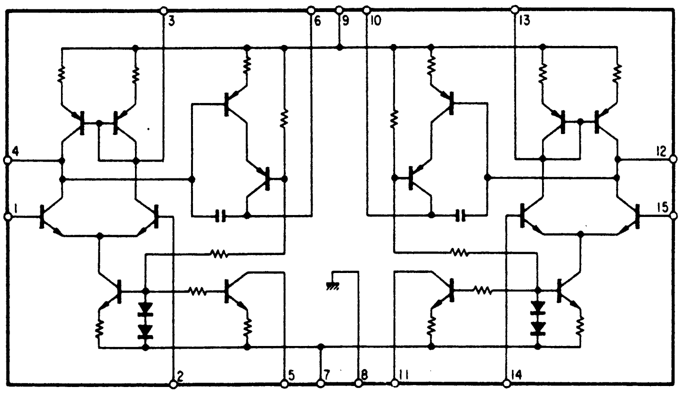
- **M5218L (Audio PRE Amp. IC)**


1
2
3
4
5
6
7
8
OUTPUT 1
INV. INPUT 1
NON INV. INPUT 1
−Vcc
NON INV. INPUT 2
INV. INPUT 2
OUTPUT 2
+Vcc
⑧+Vcc
Q101
Q102
Q106
Q206
Q202
Q201
D101
D102
D201
D202
C101
C201
Q103
Q104
Q105
Q106
Q207
Q205
Q204
Q203
−②
+③
⑥−
⑤+
④−Vcc
①
⑦

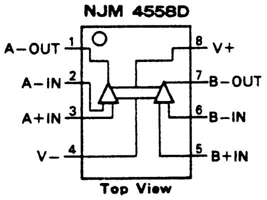
- **TA7317P (Protector IC)**


DC Bias(+) Delaying Circuit
⑧
⑨
+Vcc
Speaker Relay
⑥
Overload Detection
①
Q1
Q2
Q3
Q4
Q5
R1
R2
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
R3
R4
④
Q18
Q19
R5
⑦
R-ch DC Drift Detection
②
Q14
Q15
Q16
Q17
L-ch DC Drift Detection
③
Q20
⑤

- **STK3082 (Voltage Amplifier IC)**


3
6
9
10
13
4
12
1
15
2
5
7
8
11
14

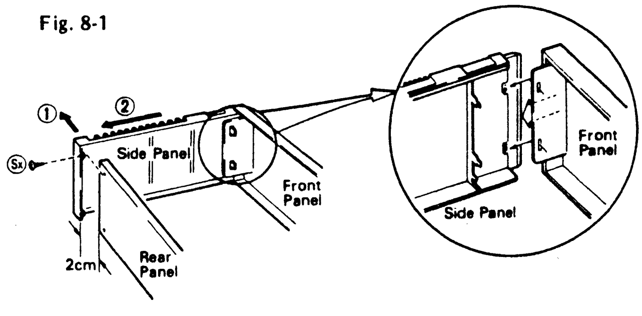
- **NJM4558D (OP Amp. IC)**


NJM 4558D
A−OUT
A−IN
A+IN
V−
1
2
3
4
8
7
6
5
V+
B−OUT
B−IN
B+IN
Top View

8. REPLACEMENT OF SIDE PANEL L(R)

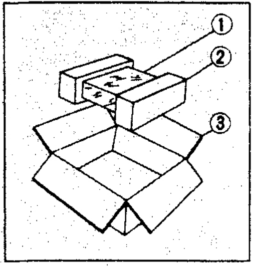
1) Remove bonnet and bottom plate.
2) Remove the screw Ⓢⓧ fixing side panel L (R) from rear panel side.
3) Shift the position of the side panel L (R) 2 cm in the arrow direction ① and then pull it the arrow direction ② to remove the side panel L (R). (See Fig. 8-1)

Fig. 8-1


①
②
Ⓢⓧ
Side Panel
Front Panel
Rear Panel
2cm
Front Panel
Side Panel

9. PACKING LIST

Parts No.	Stock No.	Description
1	91263810	Vinyl Cover
2	07949000	Styrofoam Packing
3	07948100	Carton Case <Silver Model>
	07948000	Carton Case <Black Model>



10. ACCESSORY LIST

Stock No.	Description
46356500	Operating Instruction

SANSUI ELECTRIC CO., LTD.: 14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan
PHONE: (03) 324-8891/TELEX: 232-2076 (International Division)
SANSUI ELECTRONICS CORPORATION: 1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
333 West Alondra Blvd. Gardena, California 90247 U.S.A.
3036 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI ELECTRONICS (U.K.) LTD.: Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middx UB6, OAA, England
SANSUI ELECTRONICS G.M.B.H.: Paul Ehrlich Strasse 8, 6074 Rödermark 2, West Germany

(SM1-63) Printed in Japan (820030M) 〈Stock No. 36470500〉